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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/842,753	04/25/2001	Outi Aho	460-010296-US(PAR)	8264

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EXAMINER

NGUYEN, TRONG NHAN P

ART UNIT

PAPER NUMBER

2152

DATE MAILED: 05/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/842,753

Applicant(s)

AHO ET AL

Examiner

Jack P. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11/1/04.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

### **DETAILED ACTION**

This action is in response to Applicant's amendment filed on 11/1/04. Claims 1-39 are being examined.

#### ***Response to Arguments***

Applicant's arguments filed on 11/1/04 have been fully considered but are not persuasive. Applicant asserts on page 13 that Gleeson does not teach or suggest, "...protocol conversions but reduction in the number of packets..." However, Gleeson does explicitly disclose using a gateway switch (112, fig. 1) to translate or convert protocol packets from wireless devices (104, 106, fig. 1, col. 5, line 67) into formats compatible with clients (114, 124, fig. 1) connected on a local area network 'LAN' over the wide area network 'WAN' (col. 5, lines 66 – col. 6, lines 11; col. 10, lines 40-51; packets are translated from wireless protocol format denoted as 'X' into protocol 'X.25' format that is compatible with LAN-based devices).

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 1-3, 5-11, and 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Gleeson et al, 5,627,829, (hereafter Gleeson).**

As per claim 1, Gleeson teaches a method for transmitting information between applications executed in a first and a second data transmission device in a data transmission system (col. 6, lines 40-42), the method comprising: using a data transmission protocol in the information transmission performing one or more protocol conversions in the protocol stack for the information to be transmitted (col. 10, lines 27-30, 40-46; protocols are converted into compatible formats that can be transmitted between application devices), said protocol stack comprising at least an application layer and a physical layer (200, 208, figure 2; protocol stack comprises plurality of layers such as application, physical, etc.); and transmitting messages between the first data transmission device and the second transmission device, the transmitting comprising producing messages in the application layer from the information to be transmitted (col. 6, lines 47-56; message data are generated in the application layer to be transmitted over the network).

Claims 9 and 17 are rejected by similar rationale as claim 1.

As per claims 2-3 and 10-11, Gleeson teaches transmitting at least two types of components in the messages, wherein the messages contain information on the type of the message transmitted in the message (1530, 1532, fig. 15; col. 16, lines 15-17; type and sequence number subfields are components of the data packet being transmitted between the devices); a header field, on the basis of which the type of the message is

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determined (col. 15, line 65 – col. 16, line 2; data packet includes a header field that includes the type subfield that defines the type of the packet).

As per claims 5 and 13, Gleeson teaches providing messages with a data field to transmit information produced in the application (1408, fig. 14a, col. 15, line 35; data field is a component of the data packet).

As per claims 6 and 14, Gleeson teaches using the protocol stack at least a session layer between the application layer and the physical layer (600, 604, 614, fig. 6; session layer is between the application and physical layers in the protocol stack), in which the protocol used therein contains data frames, containing at least a header field and a data field (data packet contains header and data fields), wherein the method further comprises transferring messages produced in the application layer to the data field of the data frames of the session layer (col. 6, lines 47-56; col. 15, lines 26-36; message data is generated in the application layer; message data is transferred to the data field of the data packet to be transmitted to another device).

As per claims 7 and 15, Gleeson teaches using WAP system at least as the data transmission system (col. 10, lines 27-30; radio modem protocol 'RM' is functionally equivalent to wireless application protocol 'WAP').

As per claims 8 and 16, Gleeson teaches using the Internet data transmission network at least partly used as the data transmission system (col. 11, lines 27-29; transmission control protocol/Internet protocol 'TCP/IP' allows data to be routed over the Internet).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 4 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gleeson and in view of Bhagwat et al, 6,721,805 (hereafter Bhagwat).**

As per claims 4 and 12, Gleeson does not explicitly teach dividing said header field at least into first and second different parts, wherein the first part is used in all messages and the second part is used, if necessary, in the transmission of the type-specific information of the message transmitted in the message.

Bhagwat teaches a header field contains plurality of subfields (col. 7, lines 49-57) and subfields can vary depending on the needs of the user (col. 8, lines 19-23). Hence, it would have been obvious to one of ordinary skilled in the art to modify and combine the teachings of Gleeson and Bhagwat to use the desired subfields when required depending on the type of data being transmitted in order to save bandwidth and increase the efficiency of data transmission over the networks.

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

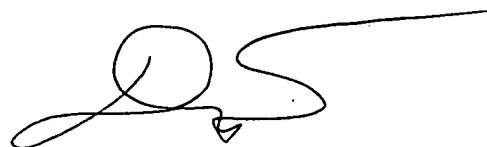
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack P. Nguyen whose telephone number is (571) 272-3945. The examiner can normally be reached on M-F 8:30-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenton Burgess can be reached on (571) 272-3949. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jpn

A handwritten signature in black ink, consisting of a large circular loop followed by a horizontal line and a long, sweeping flourish extending to the right.

**Dung C. Dinh**  
**Primary Examiner**